2023 - 2024

QUALITY CONTROL TEST REPORTS

Client: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency: Sri G Mahendra (Sree Manojava Enterprises) , Contractor, Bangalore.

Name of Work : "Repairs and maintenance of Footpaths in Attur ward no-04 of Yelahanka Satellite Town Sub Division", BBMP, Bangalore.

.

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QC ABSTRACT

Nameof Work: "Repairs and maintenance of Footpaths in Attur ward no-04 of Yelahanka Satellite Town Sub Division", BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Resuts
1	1:3:6	86.83 Cum	1	1	Pass
2	Cobble Stones-60mm	157.45 Sqm	1	1	Pass
3	KerbStones	269.00 Nos	1	1	Pass
4	Slab - 100mm	257.40 Sqm	1	1	Pass
5	Slab - 230mm	169.20 Sqm	1	1	Pass

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

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ಬಿ ಬಿ ಎಂ ಪಿ ಬೆಂಗಳೂರು-106

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/GM/W.No.04/2023-24 Date: 30.08.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri G Mahendra (Sree Manojava Enterprises)** , Contractor, Bangalore.
NAME OF THE WORK	:	"Repairs and maintenance of Footpaths in Attur ward no-04 of Yelahanka Satellite Town Sub Division", BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		July-2023
DATE OF TESTING		28.08.2023 to 30.08.2023
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	335 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50 %	-

Note:

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Job No.: CACE/BBMP/GM/W.No.04/2023-24 Date : 30.08.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency :**Sri G Mahendra (Sree Manojava Enterprises) , Contractor, Bangalore.**

Name of Work : "Repairs and maintenance of Footpaths in Attur ward no-04 of Yelahanka Satellite Town Sub Division", BBMP, Bangalore.

Date of Testing : 30.08.2023

IS Code : IS 383:2016
: IS 2386 (Part I):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	77	7.70	7.70	92.3	90-100
2.36	139	13.90	21.60	78.4	75-100
1.18	181	18.10	39.70	60.3	55-90
600 Micron	160	16.00	55.70	44.3	35-59
300 Micron	225	22.50	78.20	21.8	8-30
150 Micron	139	13.90	92.10	7.9	0-10

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Job No.: CACE/BBMP/GM/W.No.04/2023-24 Date: 30.08.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency :**Sri G Mahendra (Sree Manojava Enterprises) , Contractor, Bangalore.**

Name of Work : "Repairs and maintenance of Footpaths in Attur ward no-04 of Yelahanka Satellite Town Sub Division", BBMP, Bangalore.

Date of Testing 30.08.2023

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	25	2.50	2.50	97.5	90-100
1.18	51	5.10	7.60	92.4	70-100
600 Micron	65	6.50	14.10	85.9	40-100
300 Micron	248	24.80	38.90	61.1	5-70
150 Micron	495	49.50	88.40	11.6	0-15

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Job No.: CACE/BBMP/GM/W.No.04/2023-24 Date : 30.08.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency :**Sri G Mahendra (Sree Manojava Enterprises) , Contractor, Bangalore.**

Name of Work : "Repairs and maintenance of Footpaths in Attur ward no-04 of Yelahanka Satellite Town Sub Division", BBMP, Bangalore.

Date of Testing : 30.08.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	177	3.5	3.5	96.5	95-100
10	2493	49.9	53.4	46.6	25-55
4.75	1949	39.0	92.4	7.6	0-10

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Job No.: CACE/BBMP/GM/W.No.04/2023-24 Date : 30.08.2023

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**

Agency :**Sri G Mahendra (Sree Manojava Enterprises) , Contractor, Bangalore.**

Name of Work : "Repairs and maintenance of Footpaths in Attur ward no-04 of Yelahanka Satellite Town Sub Division", BBMP, Bangalore.

Date of Testing : 30.08.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	204	1.36	1.36	98.64	95-100
20	8249	54.99	56.35	43.65	30-70
10	3291	21.94	78.29	21.71	10-35
4.75	2845	18.97	97.26	2.74	0-5

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Job No.: CACE/BBMP/GM/W.No.04/2023-24 Date: 11.09.2023

KERB STONE (CORE) TEST REPORT

Client	:	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP,**
Agency	:	**:Sri G Mahendra (Sree Manojava Enterprises) , Contractor, Bangalore.**
Name of Work	:	: "Repairs and maintenance of Footpaths in Attur ward no-04 of Yelahanka Satellite Town Sub Division", BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	11.09.2023
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{35}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.00)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	71.00	0.345	2474.75	1.42	0.937	25.50	12.99	14.03	13.15	16.43
2	50.00	72.00	0.352	2489.89	1.44	0.940	25.80	13.14	14.19	13.33	16.67
3	50.00	73.00	0.367	2560.43	1.46	0.942	26.30	13.39	14.47	13.62	17.03

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Job No.: CACE/BBMP/GM/W.No.04/2023-24 Date: 15.09.2023

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Contractor	:	:Sri G Mahendra (Sree Manojava Enterprises) , Contractor, Bangalore.
Name of Work	:	: "Repairs and maintenance of Footpaths in Attur ward no-04 of Yelahanka Satellite Town Sub Division", BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	15.09.2023
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{25}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.379	2383.00	1.62	0.959	39.90	20.32	21.95	21.05	26.31
2	50.00	83.00	0.389	2386.94	1.66	0.963	39.60	20.17	21.78	20.98	26.23
3	50.00	85.00	0.402	2408.67	1.70	0.968	39.80	20.27	21.89	21.18	26.48

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Job No.: CACE/BBMP/GM/W.No.04/2023-24 Date: 15.09.2023

PRECAST SLAB 230mm Thick(CORE) TEST REPORT

Client	:	**: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.**
Contractor	:	**:Sri G Mahendra (Sree Manojava Enterprises) , Contractor, Bangalore.**
Name of Work	:	: "Repairs and maintenance of Footpaths in Attur ward no-04 of Yelahanka Satellite Town Sub Division", BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	15.09.2023
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24-1983.
Grade of Concrete	:	M_{25}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	111.00	1.739	2462.64	1.23	0.917	132.10	20.76	22.43	20.57	25.71
2	90.00	112.00	1.754	2461.71	1.24	0.918	133.50	20.98	22.66	20.81	26.02
3	90.00	113.00	1.781	2477.48	1.26	0.920	132.90	20.89	22.56	20.75	25.93

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Job No.: CACE/BBMP/GM/W.No.04/2023-24 Date: 25.09.2023

TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	:	**Sri G Mahendra (Sree Manojava Enterprises)** , Contractor, Bangalore.
Name of the work	:	"Repairs and maintenance of Footpaths in Attur ward no-04 of Yelahanka Satellite Town Sub Division", BBMP, Bangalore.
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl.No	Identification	Thickness, mm	Average thickness, mm
1	01	60.15	60.16
2	02	60.17	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	687.9	24,200	28.42	284.2	Minimum required Compressive Strength of Individual Units 281 Kg/m^2
2	02	690.1	24,200	28.51	285.1	

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